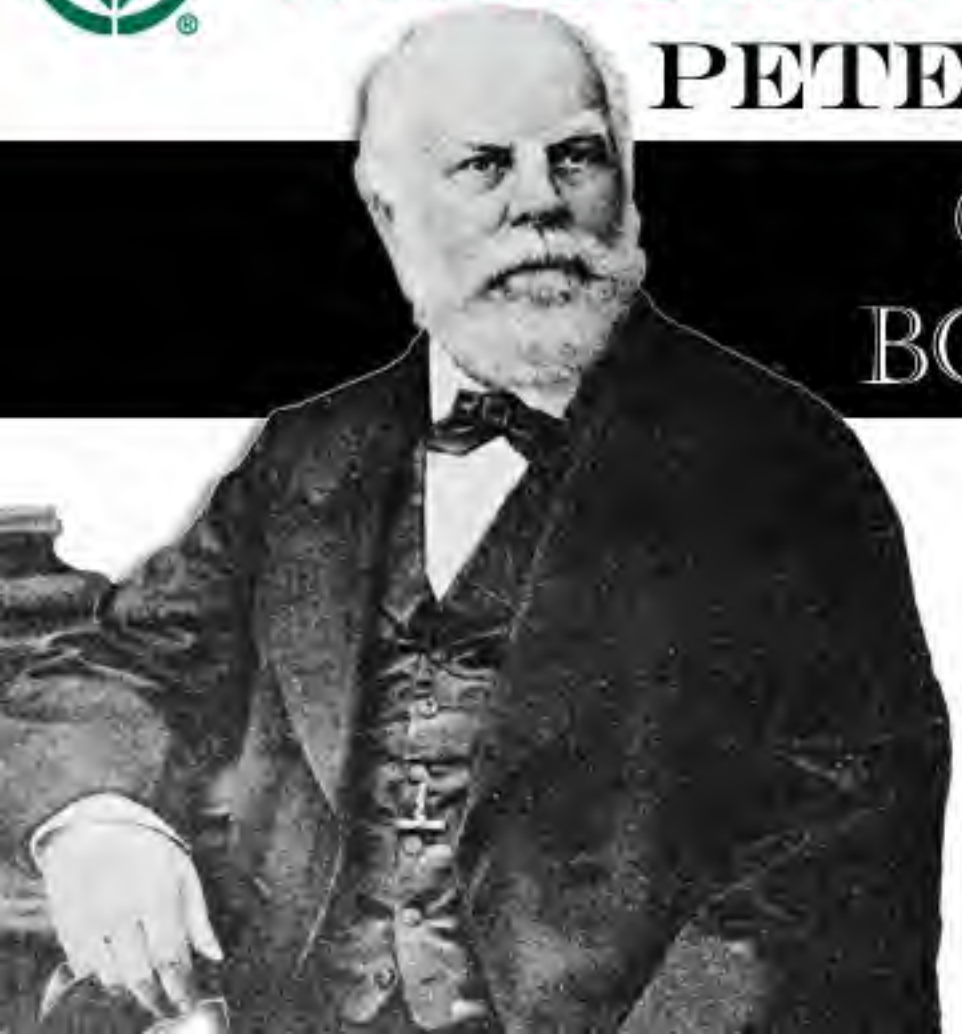
Missouri Botanical Garden
Peter H. Raven Library

George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

THE DRUGGISTS GENERAL RECEIPT BOOK. Comprising a Copious Veterinary Formulary, etc. By HENRY BEASLEY. Fourth American. From the Fifth London Edition. Philadelphia: Lindsay & Blakiston. 1863.

For sale by E. P. Gray, No. 90 Fourth street, St. Louis.

THE PREPARATION AND MOUNTING OF MICROSCOPIC OBJECTS. By THOMAS DAVIES. New York: William Wood & Co., No. 61 Walker street.

This is a very excellent little work of 140 pages. It contains "all the improved modes of mounting, together with the results of the author's experience, and that of many of his friends, in every department of microscopic manipulation."

For sale by Peter Smith, No. 184 Fourth street, between Morgan street and Franklin avenue, St. Louis.

THE ARMY SURGEON'S MANUAL. For the use of Medical Officers, Cadets, Chaplains and Hospital Stewards. By WM. GRACE. New York: Balliere Bros., 520 Broadway. 1865.

THE PHARMACEUTISTS' AND DRUGGISTS' PRACTICAL RECEIPT BOOK.

Editorial Department.

BIBLIOGRAPHICAL NOTICES.

The following works have been received. We regret that we have not room in the present number to give them their appropriate notice, which will be done in the next issue of the Journal :

THE RENEWAL OF LIFE.—Lectures : Chiefly Clinical. By THOMAS KING CHAMBERS, M. D., Physician to H. R. H. the Prince of Wales ; Physician to St. Mary's and the Lock Hospitals. From the Third London Edition. Philadelphia : Lindsay & Blakiston. 1865. For sale by Jas. M. Crawford, No. 54 Fourth street.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS
9696

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

PAGET'S SURGICAL PATHOLOGY. Lectures on Surgical Pathology, delivered at the Royal College of Surgeons of England. By JAS. PAGET, F. R. S., Surgeon Extraordinary to Her Majesty the Queen; Surgeon in Ordinary to His Royal Highness the Prince of Wales; Surgeon to St. Bartholomew's and Christ's Hospitals. Third American Edition. Philadelphia: Lindsay & Blakiston. 1865.

For sale by Jas. M. Crawford, No. 54 Fourth street, St. Louis.

HAND-BOOK OF SKIN DISEASES FOR STUDENTS AND PRACTITIONERS. By THOMAS HILLIER, M. D., London, Member of the Royal College of Physicians; Physician to the Skin Department of University College Hospital; Physician to the Hospital for Sick Children. With Illustrations. Philadelphia: Blanchard & Lea. 1865. For sale by Jas. M. Crawford, No. 54 Fourth street.

BEASLEY'S BOOK OF PRESCRIPTIONS. Containing 3000 Prescriptions, collected from the Practice of the most Eminent Physicians and Surgeons, English, French and American. By HENRY BEASLEY, Philadelphia: Lindsay & Blakiston. 1865.

For sale by E. P. Gray, No, 90 Fourth street, St, Louis.

646-73

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

The following pamphlets and exchanges have been received :

Gazette Hebdomadaire de Medecine et de Chirurgie Redacteur en Chef. Le Docteur A. De Chambre. Parait tous les Vendredis a la Libraire Victor Masson et Fi ls, Place de L'Ecole Le Medecine.

Gazette Medicale, Revue Mensuelle Medico-Chirurgicale. Montreal.

N. w York Medical Journal.

The Chicago Medical Examiner.

American Journal of Pharmacy.

The Medical News and Library.

Canada Medical Journal.

Nordamericanische, Deutsche Medicinsche Zeitschrift für Praktische Heilkunde. Zweimonatlich. Buffalo, N. Y.

The Dental Cosmos—A Monthly Record of Dental Science. Philadelphia.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

L996

MISSOURI BOTANICAL GARDEN
cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved

TEMPERATURE.

	Jan.	Feb.	Mar.	Ap'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861...	32.2	40.4	44.8	58.1	64.1	76.9	77.5	78.6	69.1	57.9	46.0	39.7	57.1°F.
1862...	28.9	30.2	43.2	55.0	69.7	75.1	81.2	80.7	72.1	57.3	42.6	41.3	56.4°F.

RELATIVE HUMIDITY.

	Jan.	Feb.	Mar.	Ap'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861...	72.2	63.3	64.5	61.5	66.3	70.8	66.3	69.6	77.3	76.6	69.0	74.3	69.5
1862...	85.3	73.9	70.8	67.0	57.3	67.0	66.8	64.3	74.2	67.2	69.5	74.6	69.8

III. *Yearly mean of Positive Electricity of Temperature, and of Relative Humidity of the Atmosphere, at the hours of* 6, 9, 12, 3, 6 *and* 9, *from morning till night, based upon daily observations at these hours through the years* 1861 *and* 1862, *at St. Louis, Mo.*

ELECTRICITY.

	At 6 A.M.	At 9 A.M.	At 12 M.	At 3 P.M.	At 6 P.M.	At 9 P.M.
1861	8.6	10.0	9.2	7.9	8.7	6.9
1862	8.9	10.0	9.1	7.3	8.1	6.8

TEMPERATURE.

1861	48.9° F...	54.9	61.6	63.6	59.3	54.3
1862	48.9	55.0	60.9	62.3	58.0	53.6

RELATIVE HUMIDITY.

186'	86.4	71.3	60.3	57.2	65.1	77.3
186-	5.3	70.6	60.0	57.5	67.6	78.0

0 1 2 3 4 5 6 7 8 9 10 cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Dec.....	11	17	21			15	15	60	S., S.E. & W.	4
	112	191	211	230	259	265	351	550	S.E.	50

V. *Positive or Negative Electricity in the Observations of* '61 & '62.

	Positive Electricity.		Negative Electricity.		No Electricity, or 0.		Highest Positive Electricity.	
	1861.	1862.	1861.	1862.	1861.	1862.	1861.	1862.
Jan.....	179	179	3	5		2	40°	40°
Feb.....	162	166	6	2			34	33
March ...	168	179	15	8			30	48
April	157	157	12	22	1	1	33	52
May.....	171	180	17	5	1	3	25	32
June	162	143	5	2	8	20	16	21
July.....	183	153	3	8	1	24	14	11
August..	176	143	5	4	6	40	15	19
Sept.....	169	117	1	1	10	61	18	23
Oct.....	162	143	4	3	20	41	33	35
Nov.....	172	157	2	7	6	16	42	42
Dec.....	175	166	5	0	6	17	37	35
	2046	1883	78	67	59	225	42°	52°

9663
MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

MISSOURI BOTANICAL GARDEN
copyright reserved

L. paradoxus

Sept 24 1865

v-b n.v. — L. nodosus L

Bethlehem Pa

Hb H.B. Diver

Nn. itiner. C. J. Moser

1-4 Aug. 1832

X60

X10

panic. contents

cap. tab. poly. anthe

dense

anth. apiculat.

copyright reserved
MISSOURI BOTANICAL GARDEN

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

9669

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

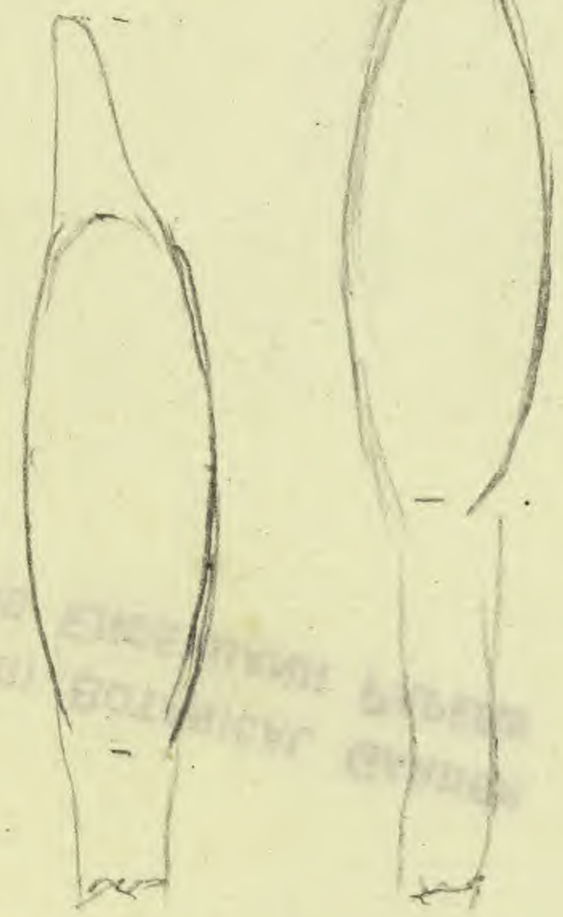
d. pendorum

Sept 30. 1865

Pecos Mountains Co

Fr Traill Green

det HC Gray



ped very minute

lowest uppermost
seeds in capsule

only lower third of placenta
fecundiferous

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Leitch & Collies

CHRONOMETERS

South West Corner Fifth and Market Streets

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0470

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Smilax pseudochina

Oct 1 1865

S. Carolina, Curtis - Herb Gray

Capsula depressa
acquaus seu
parum excedens

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

4671

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

Lemna paradoxa

Oct 6 2nd 1865

var

Ringwood, Hay

= Hb Gray

X10

GEORGE ENGELMANN LIBRARY
MISSOURI BOTANICAL GARDEN

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

0 1 2 3 4 5 6 7 8 9 10 cm
copyright reserved
MISSOURI BOTANICAL GARDEN

9672

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. LEITCH.

APOTHECARY & PHARMACEUTIST,

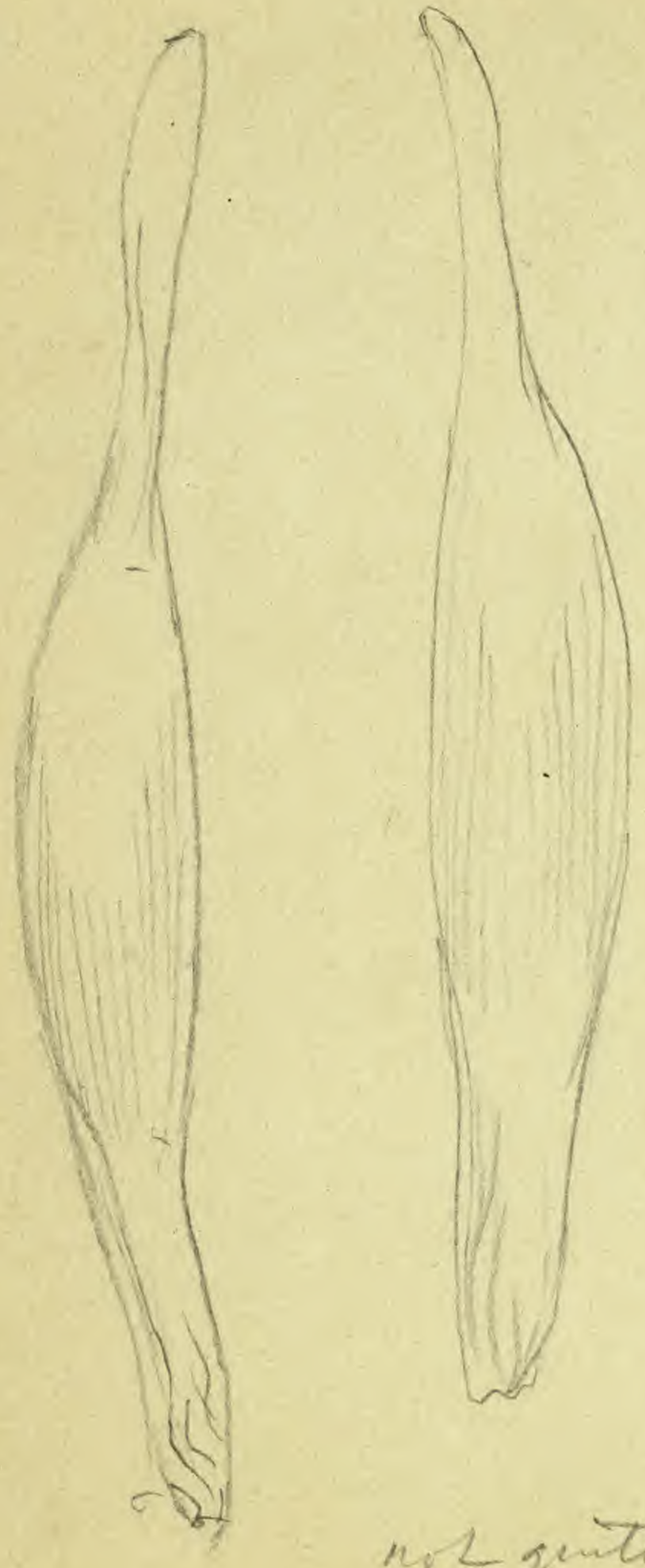
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

P. paradoxus

Dec 16. 1865 -

divaricatissimus, subcristatus

ex Mt. Duran



sepala exteriora navicularia, nervo
sicca fructifera + - indistincte 5 nervata
sepala interiora plana 3 nervata

non quite ripe

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Alex. Leitch

APOTHECARY & PHARMACEUTIST,

COR. 4TH & OLIVE STS., ST. LOUIS.

9673

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

Juncus paradoxus Aug 12 1865

Minnesota Hale

heads 8–16 flowered.

a large head of same ♂ Minneapolis
in H. Dunn has 62 flowers

capsule
fere tricoccous

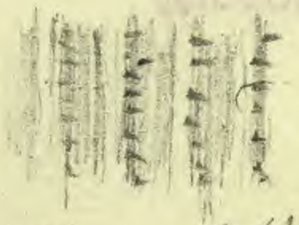
nearly 5 ribbed

inner sepals 3 ribbed, outer ones

x60

seed very
finely striated

ribs of seed
x150



x150 Dec 17. 1865

some of the seeds (best developed? or where the testa is tighter?) show striae wider distant

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

9474

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

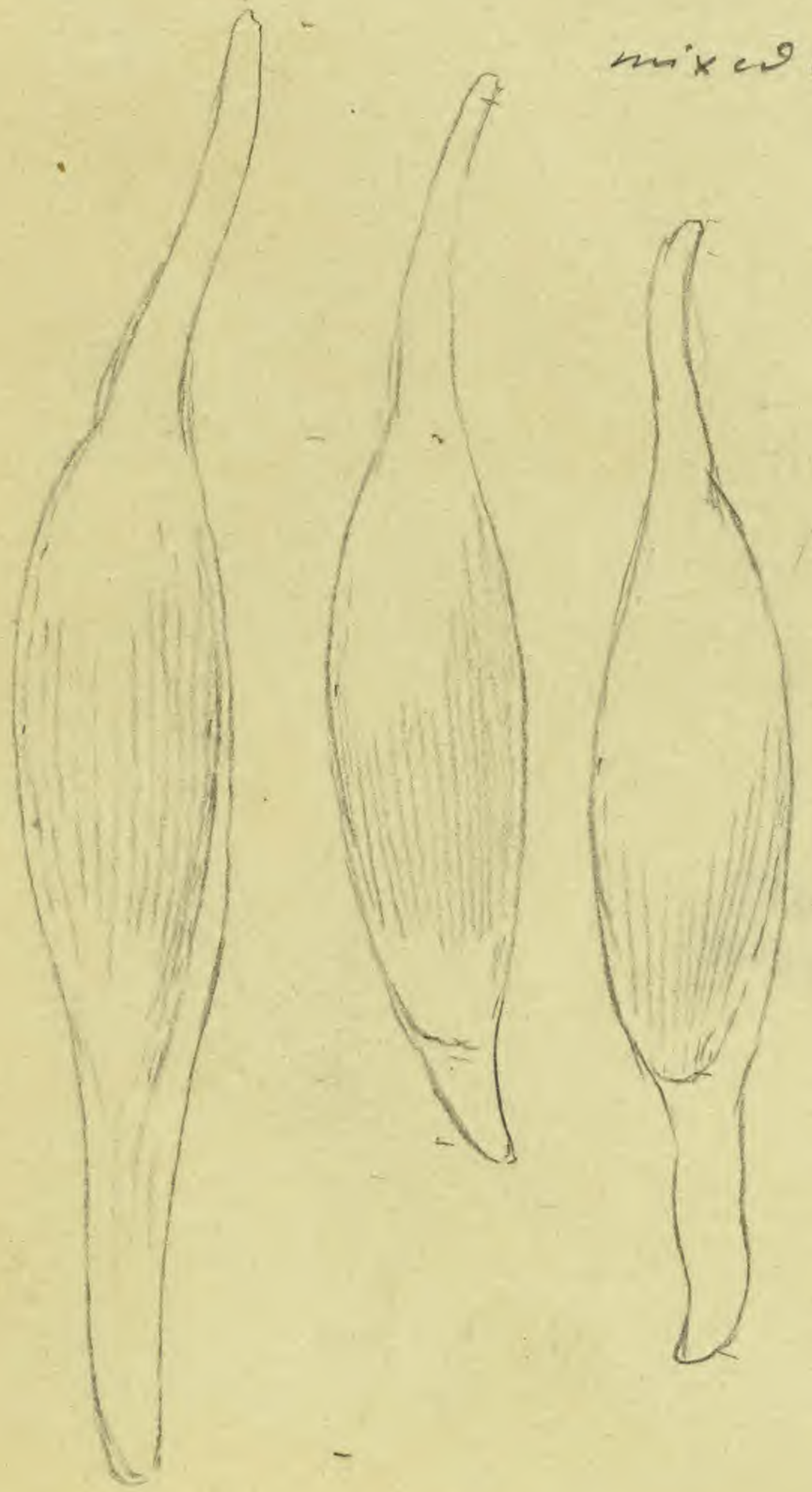
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN HERBARIUM

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

Juncus pursh Febr 8 1866

mixed with J. aspera from Griffiths Swamp
N.J. Herb. Ch.s E Smith



outer sepals slightly carinate, 1 nerved
inner sepals faintly 3 nerved
Capsule much more slender than
in aquatilis

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

M. W. ALEXANDER,

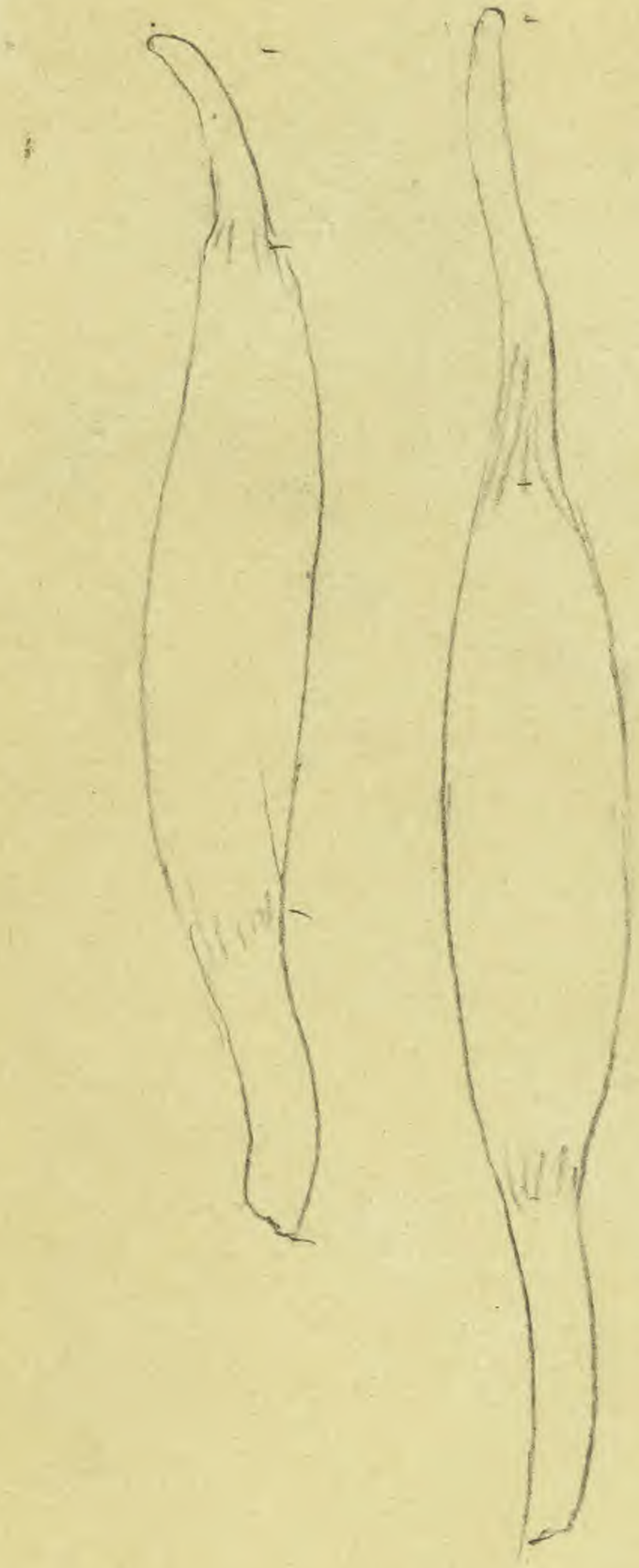
SOUTH-EAST CORNER FOURTH AND MARKET STREETS,

ST. LOUIS.

SL96

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN



S. paradoxa Feb 19 1866

S. H. Walton, Minnesota — H. Eaton

capitula multiflora in paniculam compositam disposita

Similar to the Minnesota plant

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

9676

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

M. W. ALEXANDER,
SOUTH-EAST CORNER FOURTH AND MARKET STREETS
ST. LOUIS.

March 4 1866

I pendoxy

with Gratiola aurea at Griffiths 6½ m
from Utica
Aug 28 1864
heads 5–15 flowered

9–10 nigh

GEORGE ENGELMANN LIBRARY
MISSOURI BOTANICAL GARDEN

ALEX. LEITCH,

APOTHECARY AND CHEMIST,

Marble Building, Cor. Fourth and Olive Streets,

ST. LOUIS, MO.

1796

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

Juncus paradoxus

Hackensack Marshes, New Jersey, Carey Eg. - Hb Jrny
Sept 1848
capitula dense spicata, fusca, involucrum

New Jersey Knieskern. - Hb Gray

capitula parva 8-15 flora !

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEX. LEITCH,
WHOLESALE DRUGGIST & PHARMACEUTIST
Manufacturer of Leitch's Concentrated Fluid Extracts
Warehouse & Laboratory 3 & 5 Olive Sts. St. Louis, Mo.
Office & Salesroom Corner Fourth & Olive Sts.

8L9b

I. paradoxus sem. grandiflorus Thurber

Minnesota Hale
Wisconsin Watson
Illinois Vasey
Pennsylvania Moser
x New Jersey Smith
Lansdyette

S. Carolina, Curtis

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

6796

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

P. paradoxus leptostemonus

		Hb. Phil.	Gray	Engl.
Minnesota		Hale		Hale
Wisconsin		Wilson		(W)
Illinois	Ringwood		Vasey	(V)
"	Athens			Hall
Michigan				
Ohio	?			
Connecticut			Eaton	Eaton
~~Massachusetts~~		Pickering		Pickering
	Burke	Little		Little
New York	Brookfield		Gray	
	Lake	Eaton		
New Jersey		Leiberg	Carey	Leib.
			Knieskern	Knieskern
Pennsylvania		Leiberg		Leib.
		Torrey and		
	Bro. Mts.		Green	(Gr.)
	Bethlehem			
				~~(Lake)~~
				(Moser)
Washington				
S. Carolina			Curtis	(Curt.)
Georgia		Walter		(W.)
Louisiana			Le Hale	(J.H.)

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Alex. Leitch,

APOTHECARY & CHEMIST,

Cor. 4th & Olive Sts., St. Louis.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0896

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

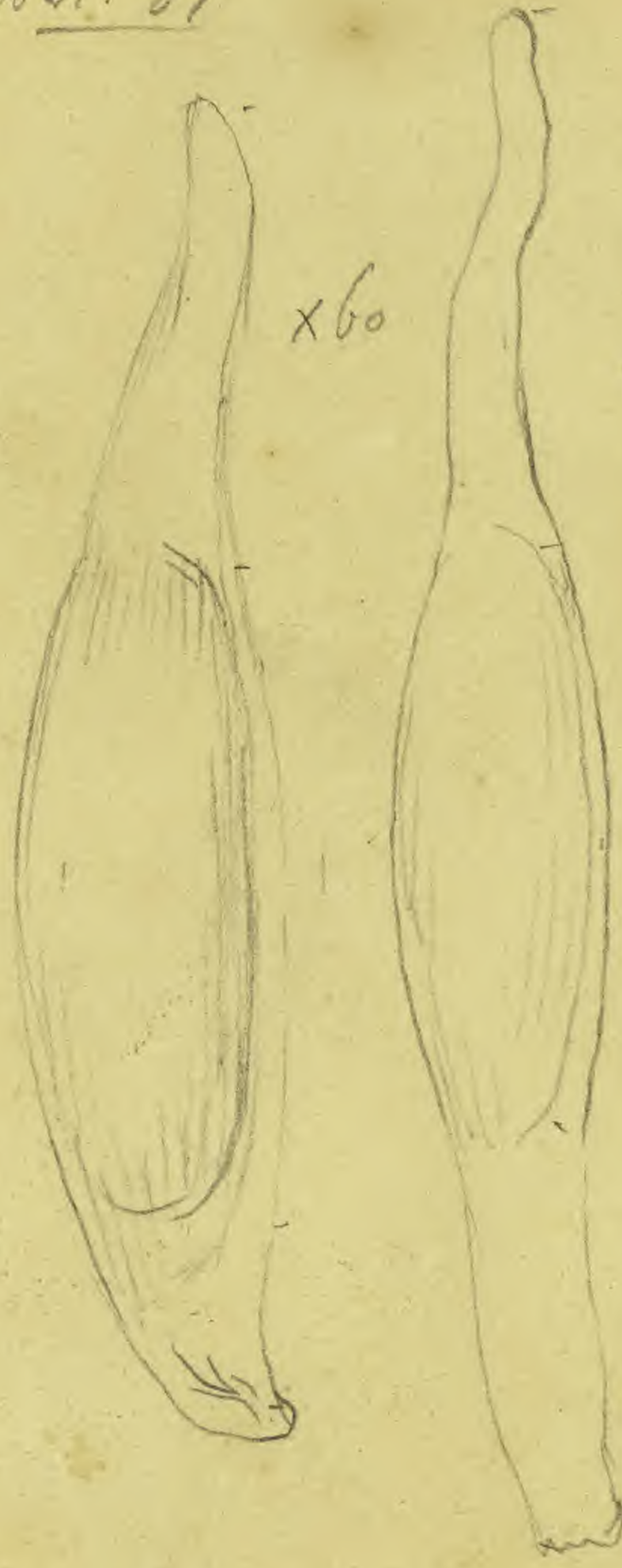
Hb N. 87

Linum Canadense
var pleiandrum

Aug 16 1867

Aiken S.C. Hb Ravenel

Sept 25th 1866



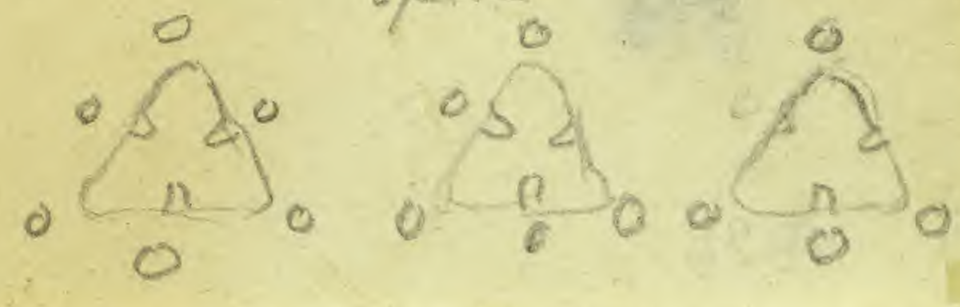
it seems that the brown flowers with short capsules have often more than 3 stams

H. more commonly 3 carp

capsule of flowers sparse

sometimes 4 fruits 1 flow

3 - 6 carp



0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

9681

ALEX. LEITCH.

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

S. Canadensis Feb 19 1908

Long rootlets

S. Canadensis Flavens

epidermis difficult to remove when dry

easier, when soaked -

cells very long, often as long as the whole width

with very thick walls

nucleus after removal of epidrm.

×280

×150

epidrm ×150

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

9682

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

I. Canadensis f. longipedata
leptospermum

Length of flowers 30. 33. 29 38 32. 36. 35 mm
1½ - 2 lin.

Seed.	42 × 15 – 116	40 × 13 – 90	44 × 13 – 87
	38 × 12 – 95	45 × 12 – 98	38 × 14 – 93
	34 × 12 – 72	32 × 12 70	36 × 11 80
	37 × 13 – 73	42 × 14 – 93	36 × 13 88

Length. $\frac{32-44}{60}$ mm = 0.27 – 0.37 lin

Diam $\frac{11-14}{60}$ mm = 0.10 – 0.12 lin

Total Length $\frac{70-116}{60}$ mm – 0.60 – 1.00 lin

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

APOTHECARY & PHARMACEUTIST,

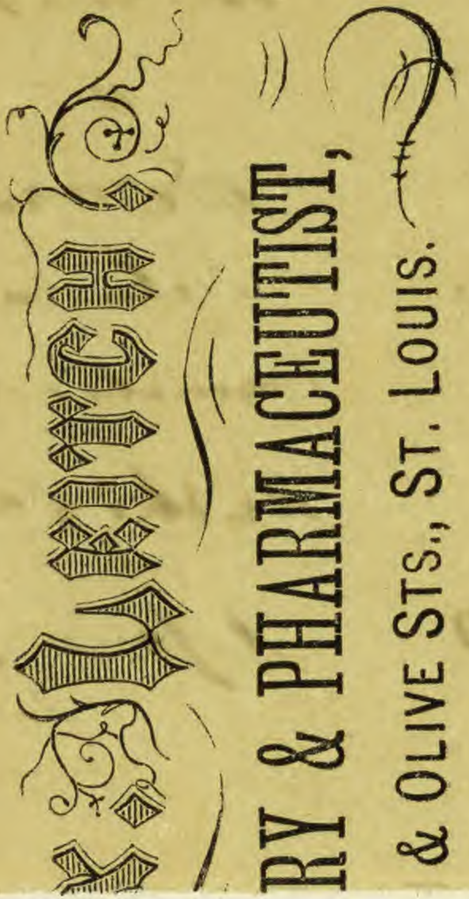
COR. 4TH & OLIVE STS., ST. LOUIS.

E89b
q683

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Heads	5–15 flowered	N Jersey	62	Massachusetts
	8–16 —	Minnesota	many	"
	~~60~~ —	~~Minnesota~~	"	Wisconsin
	8–10	Louisiana	30–90	Delaware
	15–20	Connecticut	30–40	Connecticut
	12	Kansas	20–40	Michigan
	10–15	Louisiana	30–40	Illinois
	5–12	N Jersey		

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



WHOLESALE
DRUGGIST & PHARMACEUTIST,
CORNER 4TH & OLIVE STS., ST. LOUIS.

H89b

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

D.4

panula decomposita

capitulis multiplicibus irregulariter

Ravenel S. Carolina

N85 Hb norton

capsula acuminata

calycem primulo excedente

seminibus majoribus

appendiculis longioribus

HOTEL TEICH
CHEMNITZ
MISSOURI BOTANICAL GARDEN

5896

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

"D. arrenimatus"

C. P. Smith, Tikioma, Delaware Co. Pa

(scarcely ripe)

Feb 22 1866

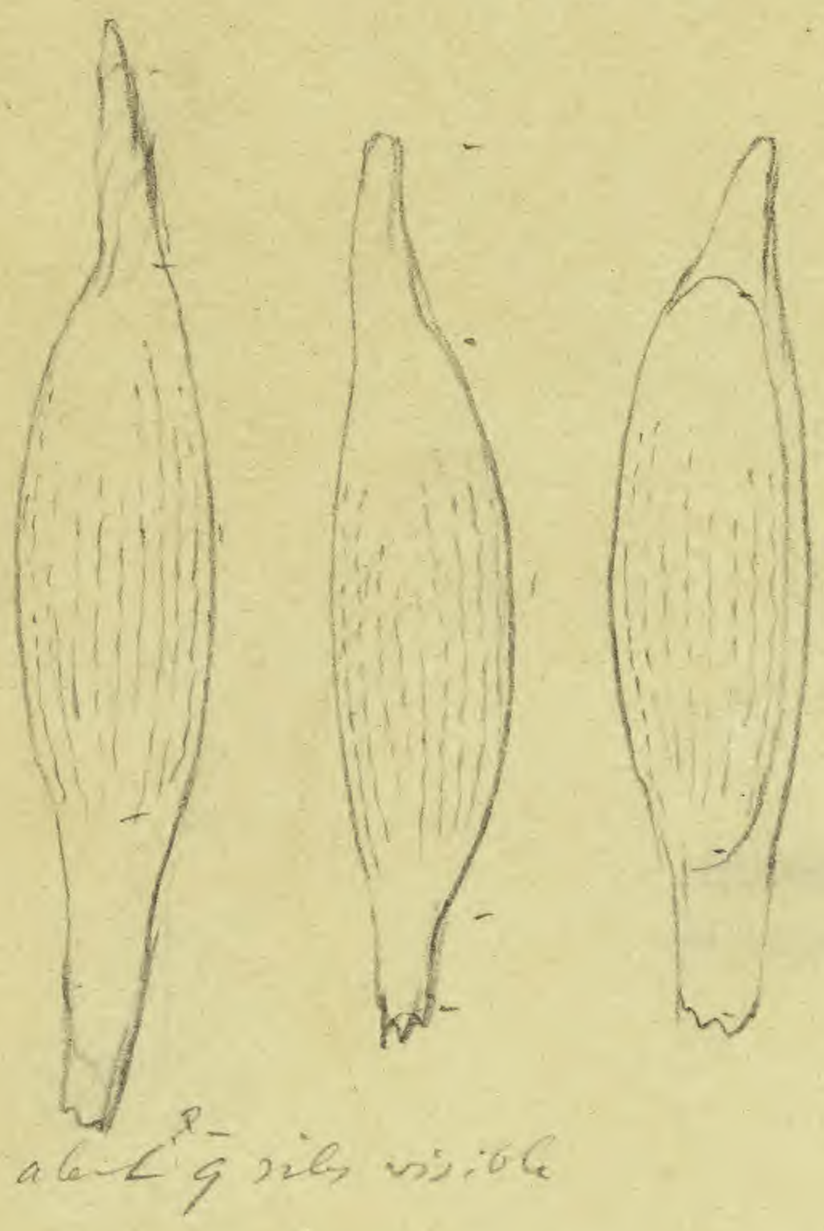
Aug 25th 1865

"heads small, 10–12 fl."

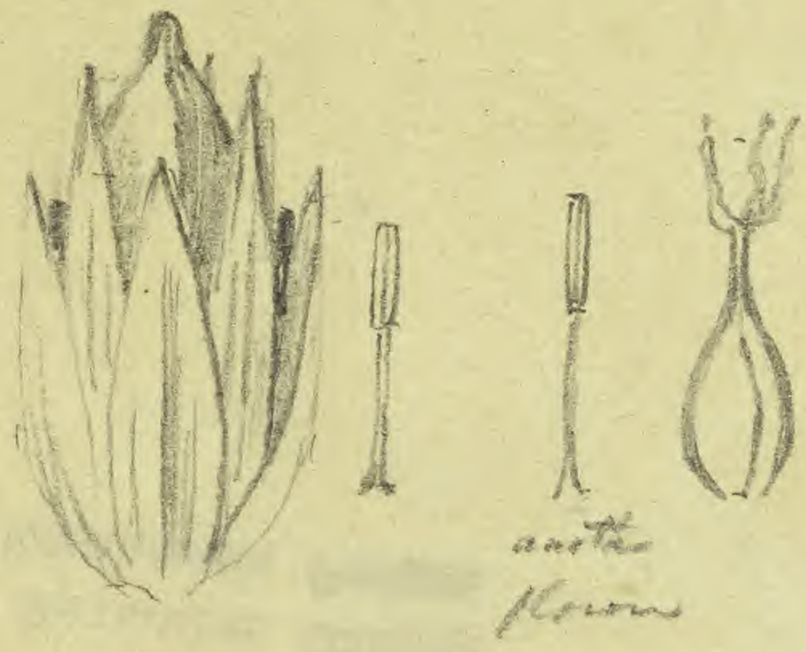
"pods ovoid"

a small form of pandoxus rather than a

many flowered form of Canadensis with which most of the small seeds I had formerly united it (Jan 1868



abt 8–9 ribs visible



anther flowers

Inflor. sc. & caps of Canadensis var. diffusa seeds (& sepals of var. navarretia

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

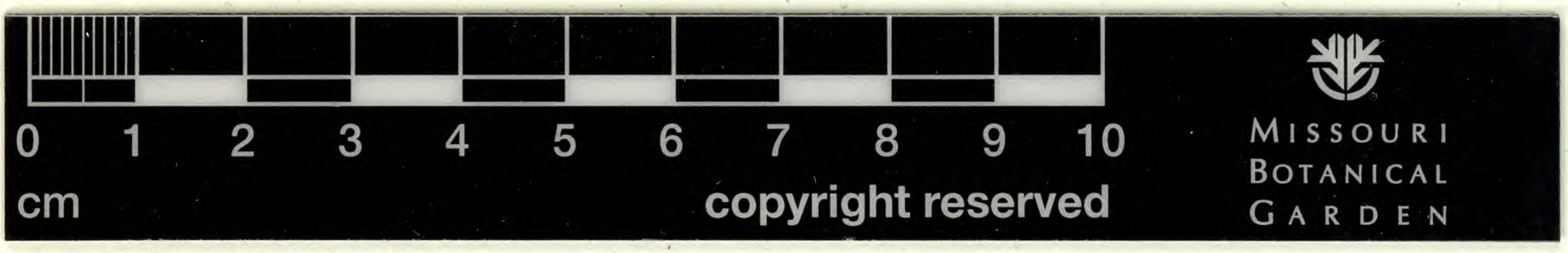
M. W. ALEXANDER,

SOUTH-EAST CORNER FOURTH AND MARKET STREETS

ST. LOUIS.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9896



I. trigonocarpus Steud. Syn. ps.
II p. 308 no. 181
(1855)
ci ~~perhaps~~ I. caudatus Chapm.
A. (1860)

certe!

Spec. in Hb. Bongeville Paris
ex Hb Steudel — Curtis misit

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

M. KOVÁCS,

APOTHECARY.

lin Avenue, bet. 18th & 19th Streets,

ST. LOUIS, MO.

9687

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

panicles plus minus congested rami rigidi

capitula plur— multiflora ray diffusa

sepala ext 1–3 nervia disk: 3 nervia

staminum 3 sepalis col brown, anther linea
supra expansa, filamento subbrevior

capsula prismatica obtusa mucronata
sepala interna elegans v. exserta

semina oblonga— arcuata longe caudata
tails usually longer than body of seed (pale: dk)

Capsule of northern specimens shorter, thicker more abruptly apiculate

of southern usually more exserted Febr 19 66

more slender, less abruptly acutate or even arcuate

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

M. W. ALEXANDER,

SOUTH-EAST CORNER FOURTH AND MARKET STREETS,

ST. LOUIS.

8896